

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1 – 3 (cancelled)

Claim 4. (currently amended) An apparatus for determining stability margin (SM), with respect to a possible self-oscillation, in a radio frequency repeater operating with a predetermined delay between an input and an output and having a feedback path between said output and said input, comprising

at least one sensing element connected to at least ~~one of said input and said output of~~ the repeater, and

at least one measurement receiver connected to said at least one sensing element for measuring at least an output signal from said repeater, on the basis of which the stability margin is calculated, wherein said sensing element establishes amplification of the repeater as a function of the frequency; measurement receiver being configured to measure—magnitude (MA) of harmonic wave-like variations is determined in amplification of the repeater as a function of the frequency, said magnitude constituting a measure of the stability margin in that, wherein an increasing magnitude corresponds to a decreasing stability margin and vice versa.

Claim 5. (original) The apparatus as defined in claim 4, wherein said at least one sensing element comprises at least one directional coupler.

Claim 6. (previously presented) The apparatus as defined in claim 5, wherein two directional couplers are connected to a single measurement receiver via a switch for alternating measurement of the signals at the output and the input, respectively.

Claim 7. (previously presented) The apparatus as defined in claim 4, wherein: said measurement receiver is connected to a control unit for controlling the gain of said repeater.

Claim 8. (currently amended) The apparatus as defined in claim 4, wherein: said measurement receiver is connectable, via a modem, to a central operational monitoring unit, whereby the measurements ~~and calculations for determining said stability margin~~ can be made by remote control.

Claim 9. (previously presented) The apparatus as defined in claim 4, wherein: a band pass filter is inserted between said sensing element and said measurement receiver.

Claim 10. (previously presented) A repeater system, including a radio frequency repeater of the kind having two antennas and the two links there between, said two links comprising an uplink for amplifying signals from a mobile telephone to a base station and a downlink for amplifying signals from said base station to said mobile telephone, said repeater system being provided with an apparatus as defined in claim 4.